

wherein the value R of the resistance being equal to $\rho L/\ell e$, the value of the length L , width ℓ , and the thickness e being defined such that a mass of the flat conductor resists electrical arcing without exceeding 300°C .

Please add the following new Claims 18-30 as follows:

18. (New) A high voltage resistance, comprising:

at least one support and a flat conductor with length L , width ℓ and thickness e fixed to the support and with a given resistivity ρ ,

wherein the value R of the resistance being equal to $\rho L/\ell e$, the value of the length L , width ℓ , and the thickness e being defined such that a mass of the flat conductor resists electrical arcing without exceeding a given temperature,

wherein said resistance is folded on itself.

19. (New) Resistance according to claim 18, wherein said support is an organic substrate.

20. (New) Resistance according to claim 18, wherein said conductor is fixed to the support by means of an organic glue.

21. (New) Resistance according to claim 18, wherein said flat conductor is in the shape of a coil.

22. (New) Resistance according to claim 21, wherein said flat conductor comprises parallel straight segments.

23. (New) Resistance according to claim 22, wherein said flat conductor comprises a nickel alloy.

24. (New) Resistance according to claim 23, wherein said flat conductor is covered by an insulating layer.

25. (New) Resistance according to claim 24, wherein said insulating layer is an organic substrate.

26. (New) Resistance according to claim 25, wherein said organic substrate is fixed to a ceramic support.

27. (New) Resistance according to claim 26, wherein said organic substrate is fixed on the two sides of a ceramic support.

28. (New) Resistance according to claim 27, further comprising connection wires, with ends soldered onto connection strips of said flat conductor.

29. (New) Resistance according to claim 28, wherein said resistance is fixed to the bottom of a ceramic casing.

30. (New) Resistance according to claim 29, wherein said resistance is protected by a resin poured in said casing.

REMARKS

Favorable reconsideration of this application in light of the following discussion is respectfully requested.

Claims 1-14 and 18-30 are presently active in this case. The present amendment amends Claim 1 and adds new Claims 18-30. The above amended shows the amended claims in clean form, the attachment shows a marked-up copy for the Examiner's convenience.

In the outstanding Office Action, Claim 1 was rejected under 35 U.S.C. § 102(b) as anticipated by Collins. Claims 1-3 were rejected under 35 U.S.C. § 102(b) as anticipated by Roberts et al. Claim 4 was rejected under 35 U.S.C. § 103(a) as unpatentable over Roberts in view of Mitsuo. Claims 5 and 6 were rejected under 35 U.S.C. § 103(a) as unpatentable over